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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Atty. Docket: AGA6B

In re Application of:	)	Conf. No.:
Hajime AGA	)	
	)	Art Unit:
	)	
Appln. No.: 10/670,525	)	Examiner:
	)	
Filed:	)	Washington, D.C.
	)	
For: REDUCTION INHIBITORY...	)	November 22, 2004

INFORMATION DISCLOSURE STATEMENT [IDS]

Honorable Commissioner for Patents  
U.S. Patent and Trademark Office  
2011 South Clark Place  
Customer Window, Mail Stop Amendment  
Crystal Plaza Two, Lobby, Room 1B03  
Arlington, VA 22202

Sir:

This Information Disclosure Statement is submitted in accordance with 37 CFR §§1.97, 1.98, and it is requested that the information set forth in this statement and in the listed documents be considered during the pendency of the above-identified application, and any other application relying on the filing date of the above-identified application or cross-referencing it as a related application.

[X] 1. This IDS should be considered, in accordance with 37 CFR §1.97, as it is filed:

[X] B. before the mailing date of a first office action on the merits or before the mailing of a first Office action after the filing of a Request for Continued Examination under 37 CFR §1.114.

[X] 2. In accordance with 37 CFR §1.98, this IDS includes a list (e.g., form PTO-1449) of all patents, publications, or other information submitted for consideration by the office, either incorporated into this IDS or as an

attachment hereto. A copy of each document listed is attached, except as explained below.

[X] A. Document(s) CB-CI is (are) U.S. patent(s) and/or published application(s). 37 CFR §1.98(a)(2)(ii) does not require the filing of legible copies of U.S. patents or U.S. patent application publications unless required by the Office.

[X] B. Document(s) CK and CL is (are) deemed substantially cumulative to document(s) CI and CH, and, in accordance with 37 CFR §1.98(c), only a copy of each of the latter documents is enclosed.

[X] 3. Document(s) CJ and CM-CP is (are) not in the English language. In accordance with 37 CFR §1.98(a)(3), Applicant(s) states:

[X] An English translation of each document CK, CL, CM, CN, CO, and CP (or of the pertinent portions thereof), or a copy of each corresponding English-language patent or application, or English-language abstract (or claim) is enclosed. If a corresponding patent or application is being relied on, a line connecting the non-English-language document with its corresponding English-language document is drawn in the margin of the accompanying form PTO/SB/08a.

[X] A concise explanation of the relevance of document(s) CJ-CP is found in the attached Partial European search report (see reply to Comment 68 in the preamble to the final rules; 1135 OG 13 at 20).

[X] 4. No explanation of relevance is necessary for documents in the English language (see reply to Comments 67 and 68 in the preamble to the final rules; 1135 OG 13 at 20).

[X] 5. Other information being provided for the examiner's consideration follows:

*Partial European Search Report*

6. In accordance with 37 CFR §§1.97(g) and (h), the filing of this IDS should not be construed as a representation that a search has been made or that information cited is, or is considered to be, material to patentability as defined in 37 CFR §1.56 (b), or that any cited document listed or attached is (or constitutes) prior art. Unless otherwise indicated, the date of publication indicated for an item is taken from the face of the item and Applicant(s) reserves the right to prove that the date of publication is in fact different.

Respectfully submitted,

BROWDY AND NEIMARK  
Attorneys for Applicant(s)

By:

  
Anne M. Kornbau

Registration No. 25,884

AMK:ses  
624 Ninth Street, N.W., Suite 300  
Washington, D.C. 20001-5303  
Telephone: (202) 628-5197  
Facsimile: (202) 737-3528  
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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 2

**Complete if Known**

Application Number	10/670,525
Filing Date	September 26, 2003
First Named Inventor	Hajime AGA
Group Art Unit	
Examiner Name	
Attorney Docket Number	AGA6B

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	CB	US-4,806,343 A	02-21-1989	HAND STEVEN C et al	
	CD	US-4,839,164 A	06-13-1989	SMITH WALTER P	
	CE	US-5,059,518 A	10-22-1991	KORTRIGHT KENNETH H et al	
	CF	US-5,149,653 A	09-22-1992	ROSER BRUCE J	
	CG	US-5,512,547 A	04-30-1996	GOODNOUGH MICHAEL C et al	
	CH	US-5,556,771 A	09-17-1996	GEN PROBE INC	
	CI	US-5,935,636 A	10-08-1999	HAYASHIBARA BIOCHEM LAB	
	US-				
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**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Number Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
	CJ	DE 195 03 685 A	08-01-1996	INVITEK GMBH		
	CK	EP 0 693 558	01-24-1996	HAYASHIBARA BIOCHEM LAB		
	CL	EP 0 726 310 A	08-14-1996	GEN PROBE INC		
	CM	JP 60 149972 A	08-07-1985	YATORON: KK		
	CN	JP 6 040845 A	02-15-1994	SHISEIDO CO LTD		
	CO	JP 7 194378 A	08-01-1995	FUJI SEITO KK		
	CP	WO 97/42327 A	11-13-1997	ZENTELLA GOMEZ RODO		

Examiner  
SignatureDate  
Considered

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449A/PTO

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(use as many sheets as necessary)

Sheet 1 of 2

**Complete if Known**

Application Number	10/670,525
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First Named Inventor	Hajime AGA
Group Art Unit	
Examiner Name	
Attorney Docket Number	AGA6B

**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
	CQ	AGUILERA J M et al "Preservation of biological materials under desiccation" Critical Reviews in Food Science and Nutrition" Vol. 37, No. 3 (1997) pp: 287-309.	
	CR	BHANDAL I S et al "Trehalose As Cryoprotectant for the Freeze Preservation of Carrot Daucus-Carota and Tobacco Cells" Plant Physiology, Vol. 78, No. 2 (1985) pp: 430-432.	
	CS	COLACO C et al "Extraordinary Stability of Enzymes dried in Trehalose: Simplified Molecular Biology" Bio/Technology, Nature Publishing Co. Vol. 10, No. 9. (September 1992) pp: 1007-1011	
	CT	CROWE J H et al "Interactions of sugars with membranes" Biochimica et Biophysica Acta Vol. 947, No. 2 (June 1988) pp: 367-384.	
	CU	CROWE L M et al "Is trehalose special for preserving dry biomaterials?" Biophysical Journal, Vol. 71, No. 4, (October 1996) pp: 2087-2093.	
	CV	HOLMSTROM K O et al "Drought Tolerance in Tobacco" Nature, Macmillian Journals LTD, Vol. 379 (February 1996) pp: 683-684.	
	CW	MOURADIAN R et al "Degradation of Functional Integrity During Long-Term Storage of a Freeze-dried Biological Membrane" Cryobiology, Vol. 22, No. 2 (1985) pp: 119-127.	
	CX	NEWMAN Y M et al "The Role of Trehalose and other Carbohydrates in Biopreservation" Biotechnology and Genetic Engineering Reviews, Intercept LTD. Vol. 11 (December 1993) pp: 263-294	
	CY	PANEK A D "Trehalose metabolism: New horizons in technological applications" Brazilian Journal of Medical and Biological Research" Vol. 28, No. 2 (1995) pp: 169-181	
	CZ	RUDOLPH A S et al "Dry Storage of Liposome-Encapsulated Hemoglobin a Blood Substitute" Cryobiology, Vol. 27, No. 6 (1990) pp: 585-590	
	DA	RUDOLPH A S "The Freeze-Dried Preservation of Lipsome Encapsulated Hemoglobin A Potential Blood Substitute Cryobiology" Vol. 25, No. 4 (1988) pp 277-284.	
	DB	SOLA-PENNA M et al "Protective role of trehalose in thermal denaturation of yeast pyrophosphatase" Zeitschrift fur Naturforschung, Journal of Biosciences (May 1994) Vol. 49, No. 5-6 pp: 327-330.	

Examiner  
SignatureDate  
Considered

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.